

ABSTRACT

A method and corresponding structure having conductors fastened in an offset fashion to appropriately patterned traces on the PCB to surround a single magnetic core positioned on the surface of the printed circuit board so as to create an inductor coil. The inventive method and structure reduces component and manufacturing cost by providing substantially pie-slice shaped conductors shaped for efficient automated production since the inventive shaped conductors can be soldered in place during the reflow process for the entire printed circuit board. As a result, a low profile surface mounted inductor is provided. Flux leakage is also reduced compared to known magnetic core winding structures.